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Starch hydrolysate prepn. rich in maltose - by hydrolysis of cereal enzyme extract, using alpha-amylase

Patent Number(s): ~DE4125971-A1

Inventor(s): SCHIRNER R, ROICK T, MAEDER A, KRAUSE A

Patent Assignee Name(s) and Code(s): CERESAN GMBH MARKRANSTAEDT (CERE-Non-standard)

Derwent Primary Accession Number: 1993-053660 []

Abstract: In prepn. of a starch hydrolysate rich in maltose, a native cereal enzyme extract, rich in protein and minerals, is hydrolysed in admixture with a starch suspension in a ratio of 1:2-10 wt.% and a dry matter content of 5-42 wt., with moderate stirring and for 0.3-4 h, with addn. of an alpha-amylase and utilisation of the natural cereal beta-amylase present in the medium. Hydrolysis is at 45-67 deg.C and pH 4.5-6.8 to 45-50 dextrose equiv. units.

USE/ADVANTAGE-A 1-stage process avoids starch liquefaction, and gives a shorter reaction time. 85-92 wt.% of the carbohydrate is maltose. 7-13% is maltotriose and 1-3% is glucose. The hydrolysate is an additive for food compens. and a material for biotechnological processes, and prodn. of maltose syrup.

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International Patent Classification: C07H-003/02; C07H-003/06; C12P-019/14; C12P-019/22; C13K-001/06

Derwent Class Code(s): D13 (Other foodstuffs and treatment); D16 (Fermentation industry); D17 (Sugar and starch industry)

Derwent Manual Code(s): D05-A02C; D05-C03; D06-G; D06-H01

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
~DE4125971-A1	11 Feb 1993	C12P-019/22	199307	Pages: 4	

Additional information

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Application Details:

--DE4125971-A1	DE4125971	06 Aug 1991

Priority Application Information and Date:

DE4125971	06 Aug 1991

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